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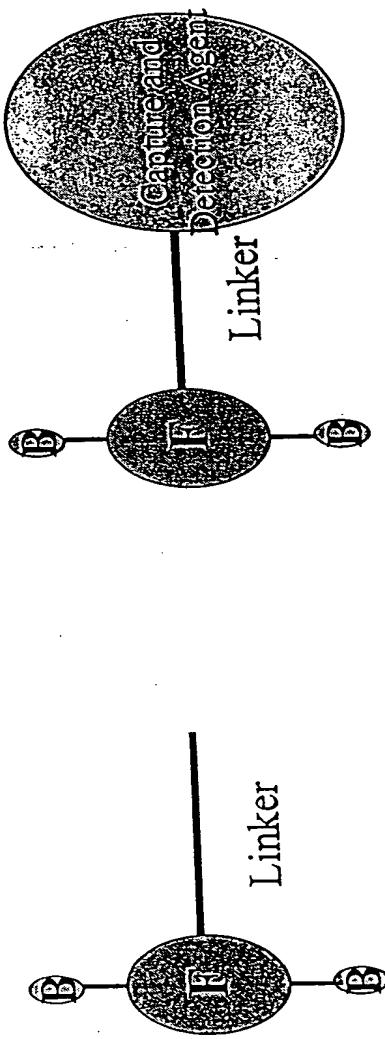
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High-throughput Target ID



Library of Bioactive Compounds

Library of Target ID Compounds

Use corresponding activity-based probe to identify the biological target

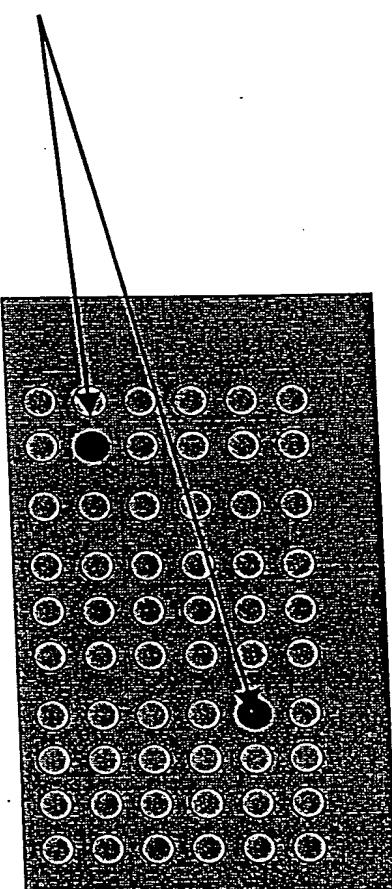
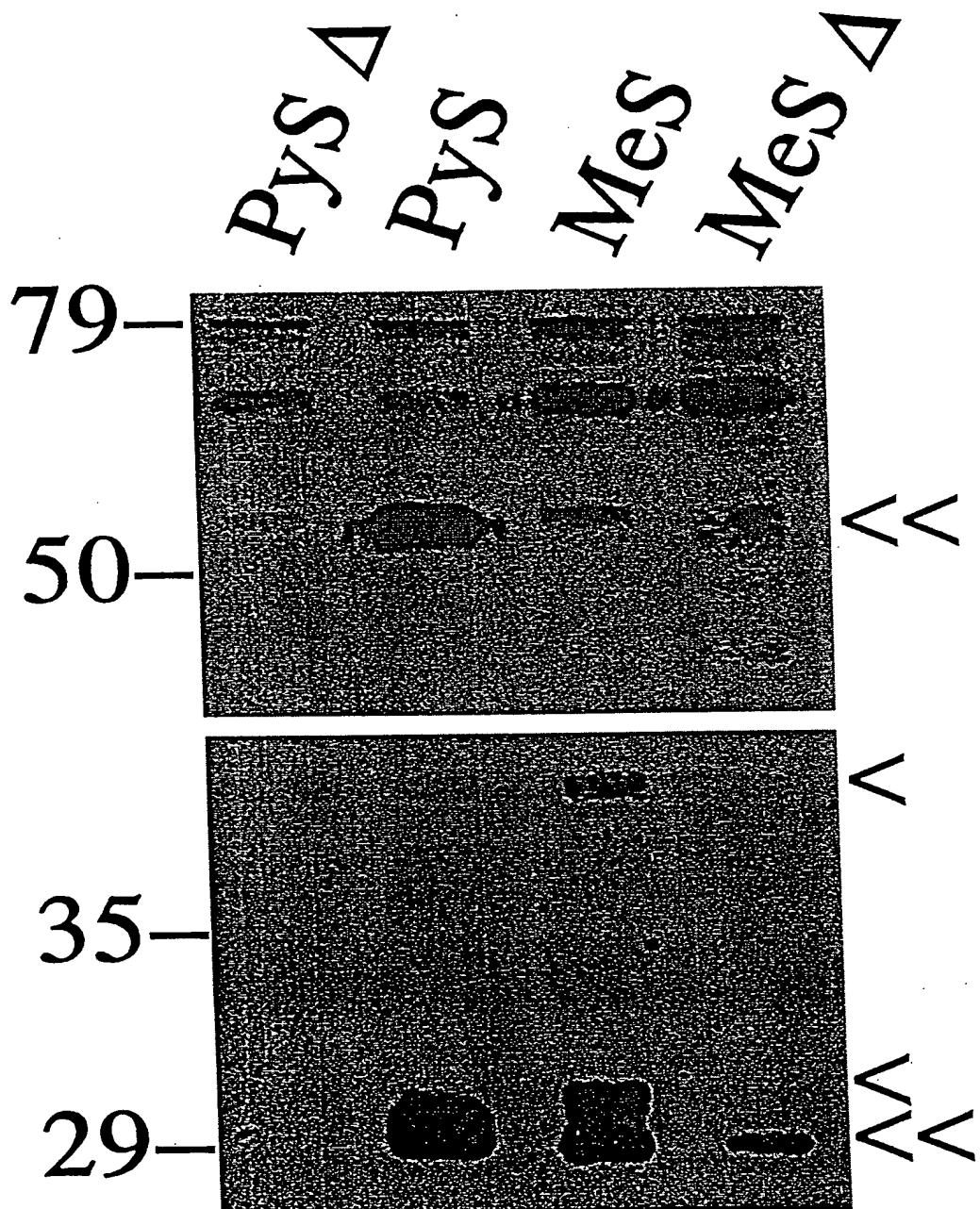


FIGURE 2



Non-Directed Tagged Library of Sulfonates Identifies Probe for ADH Superfamily of Enzymes

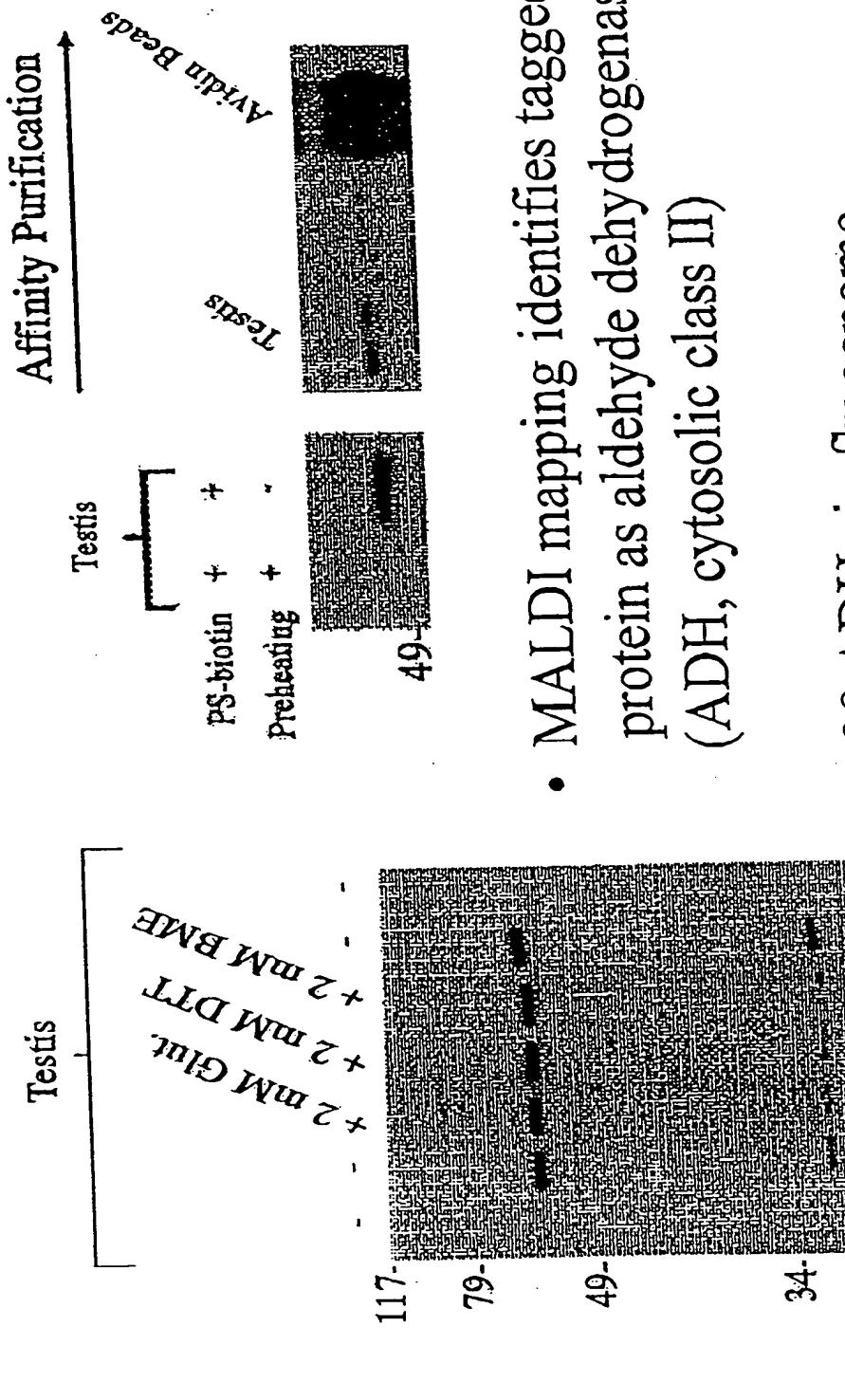
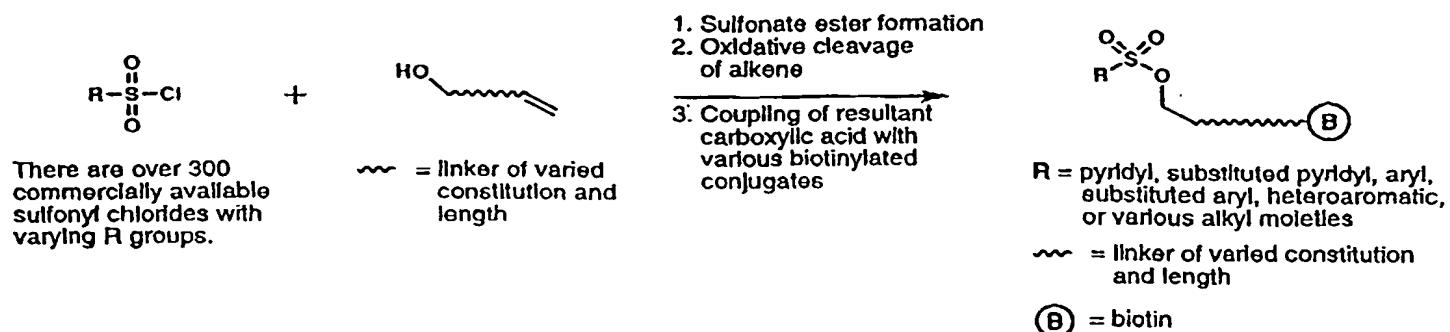
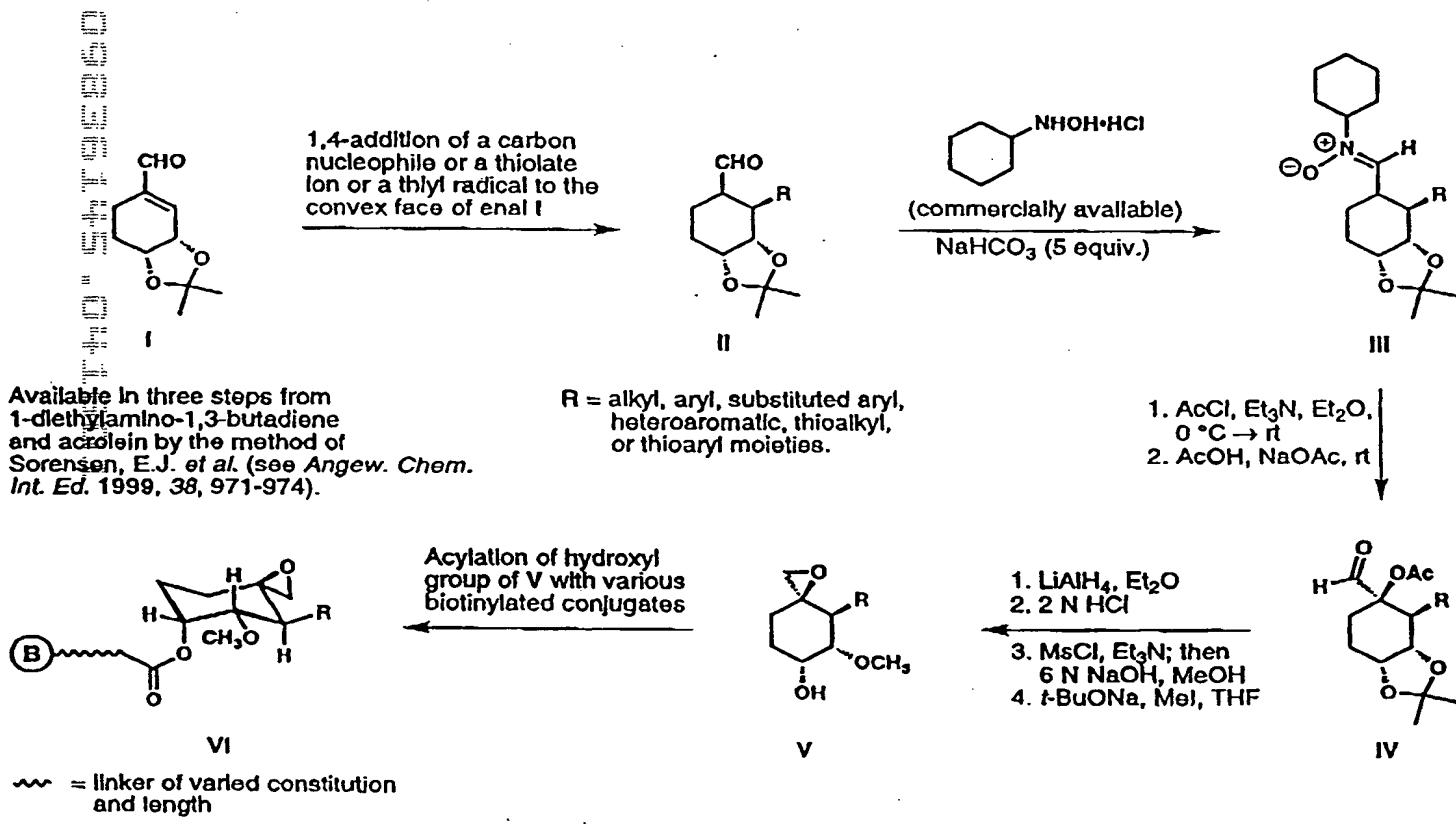


FIGURE 3

FIGURE 4



Scheme 1. A pathway for syntheses of various biotinylated sulfonate esters for use in activity-based proteomics studies.

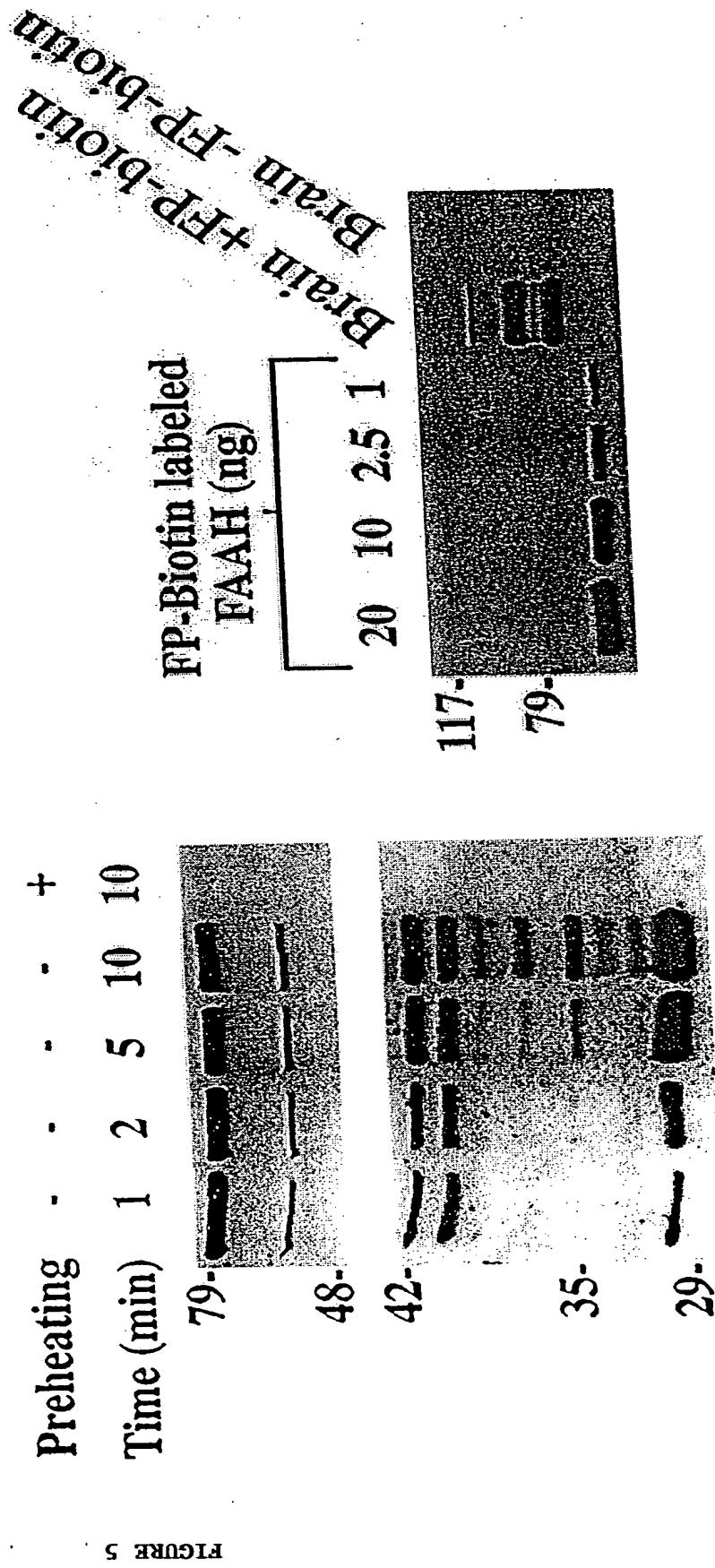


Scheme 2. A strategy for convergent, stereocontrolled syntheses of conformationally well-defined spiroepoxides of type VI. Literature precedent for I → II → III → IV → V can be found in Sorensen, E.J. et al. *Angew. Chem. Int. Ed.* 1999, 38, 971-974. Compounds of type VI are analogs of the metalloprotease (MetAp-2) inhibitor fumagillin and will be employed as covalent affinity agents in activity-based proteomics studies.

FP-Biotin: a kinetic reporter of SH Activity

The rates at which the majority of SHs react with FP-biotin can be experimentally followed

FP-biotin readily detects low femtomole quantities of SHs directly in complex cell/tissue proteomes



Utility of Multiplexed probes in identifying Serine Hydrolases

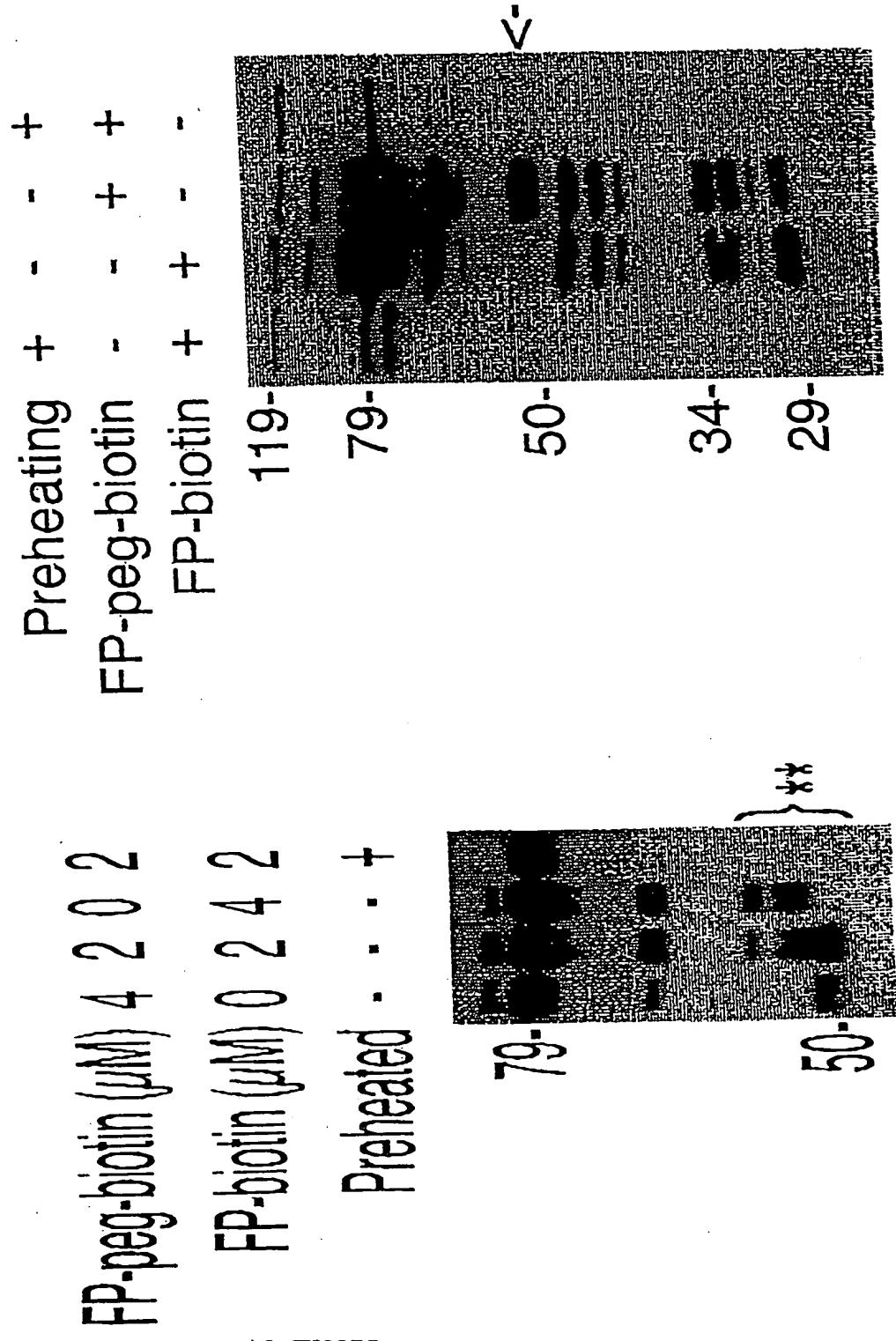


FIGURE 6

FIGURE 7

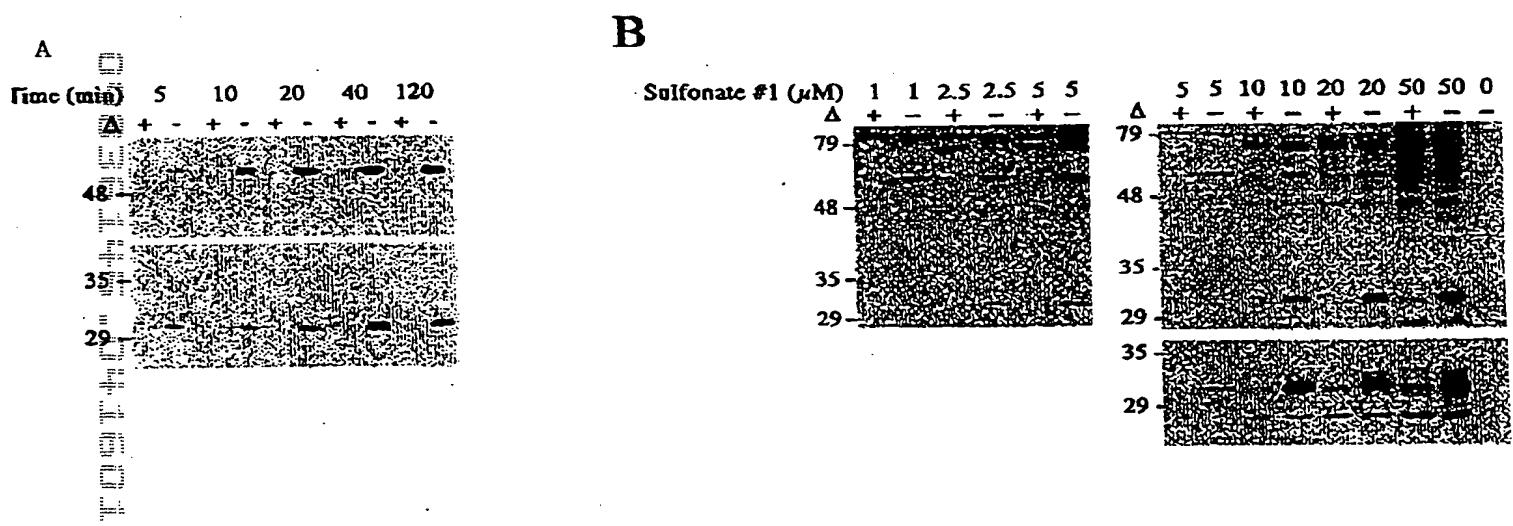
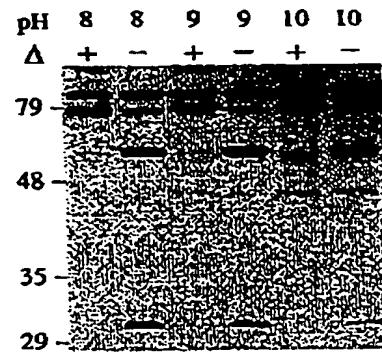
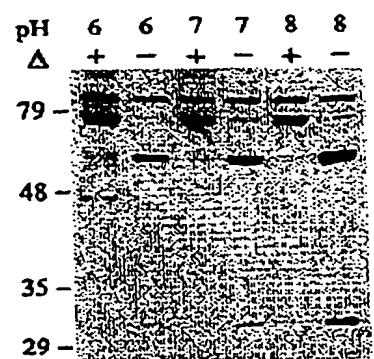


FIGURE 7

DEPARTMENT OF MEDICAL

C



D

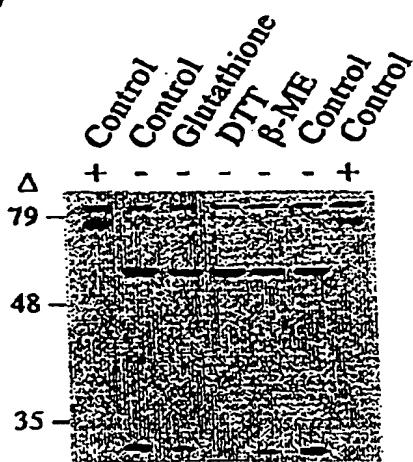


FIGURE 8

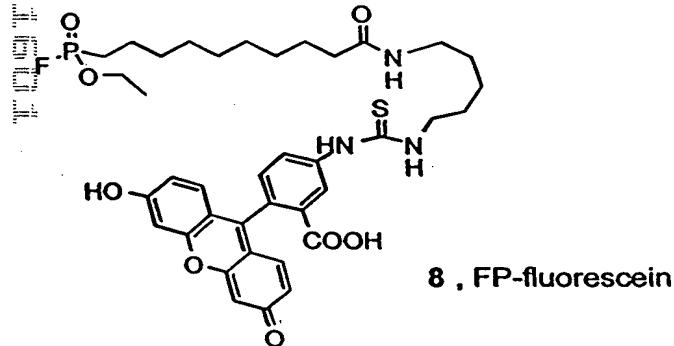
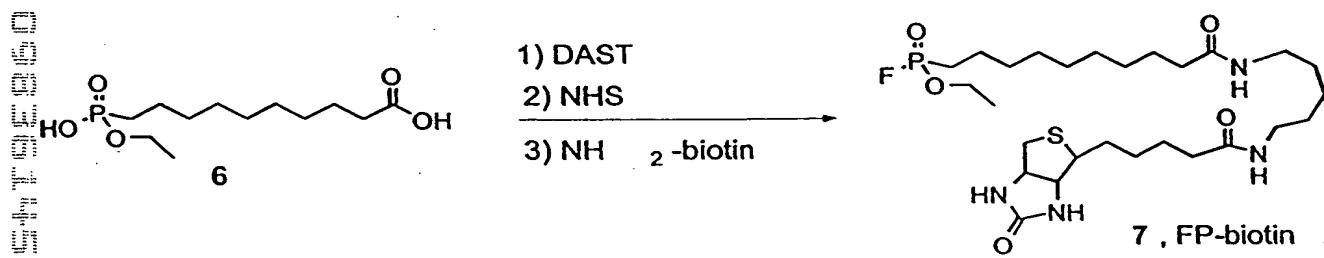
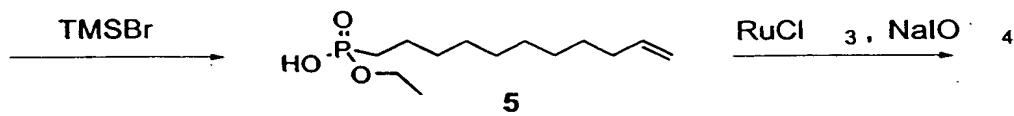
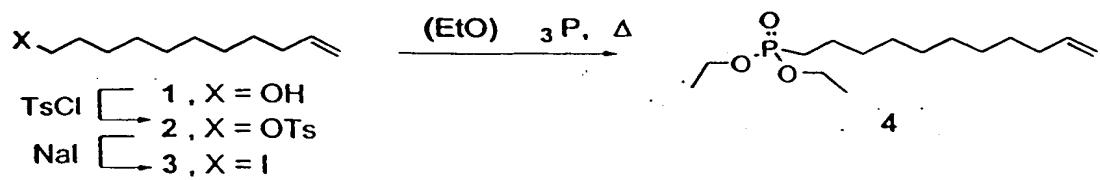
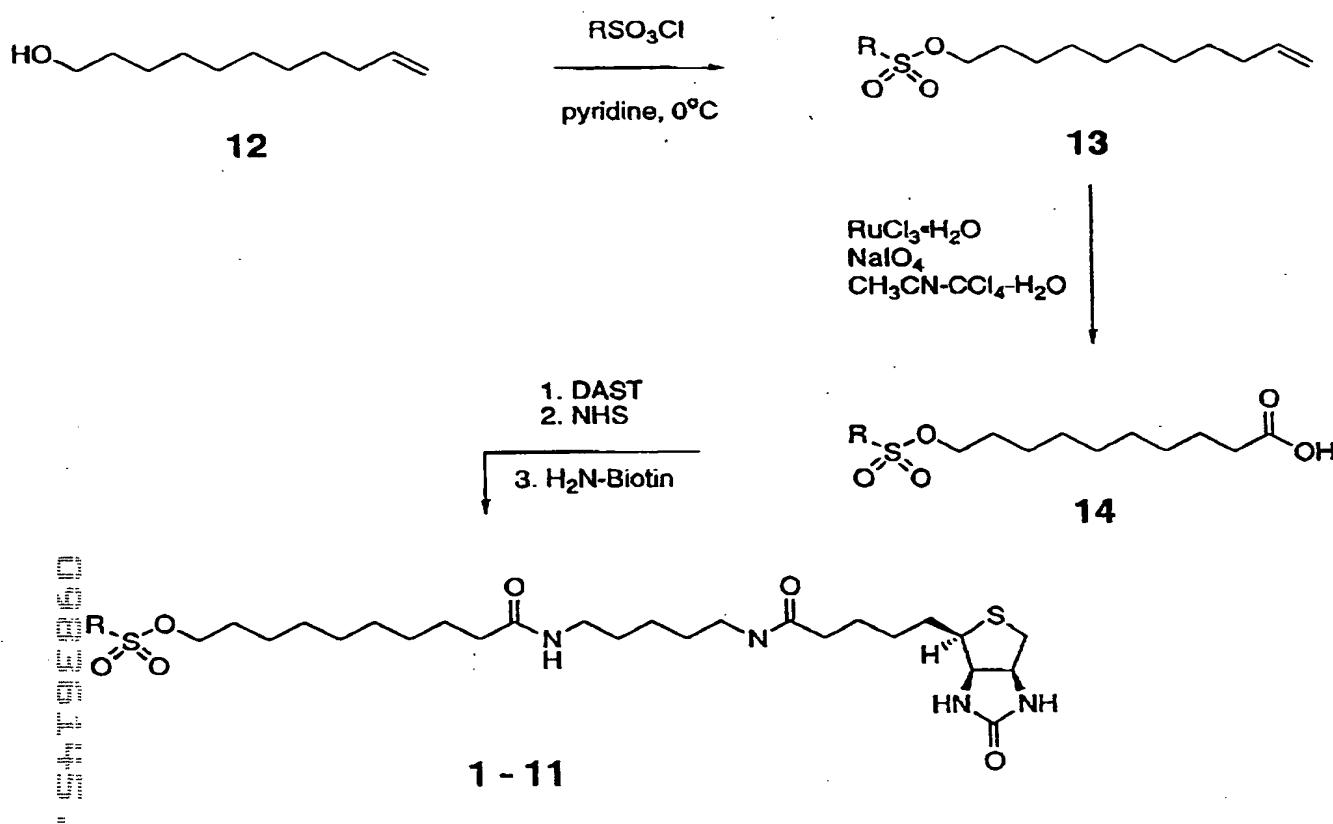


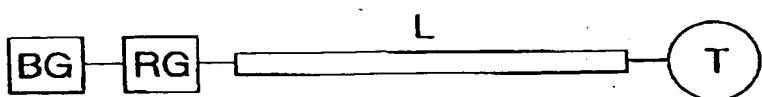
FIGURE 9



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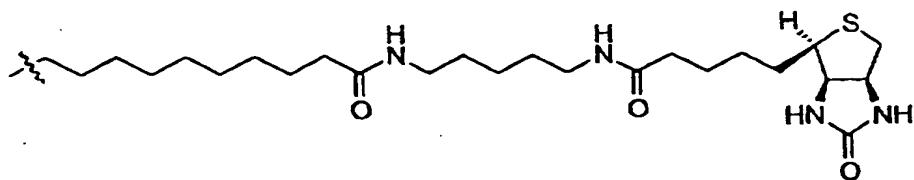
FIGURE 10

A.

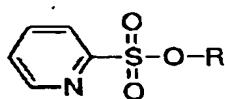


B.

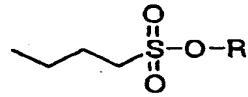
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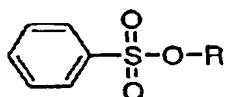
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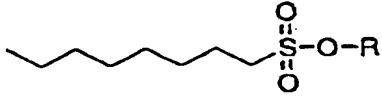
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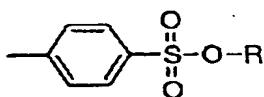
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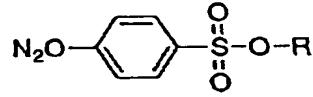
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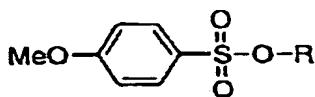
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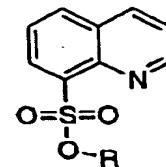
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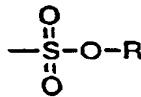
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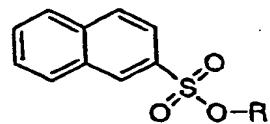
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11

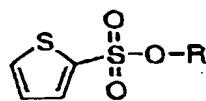
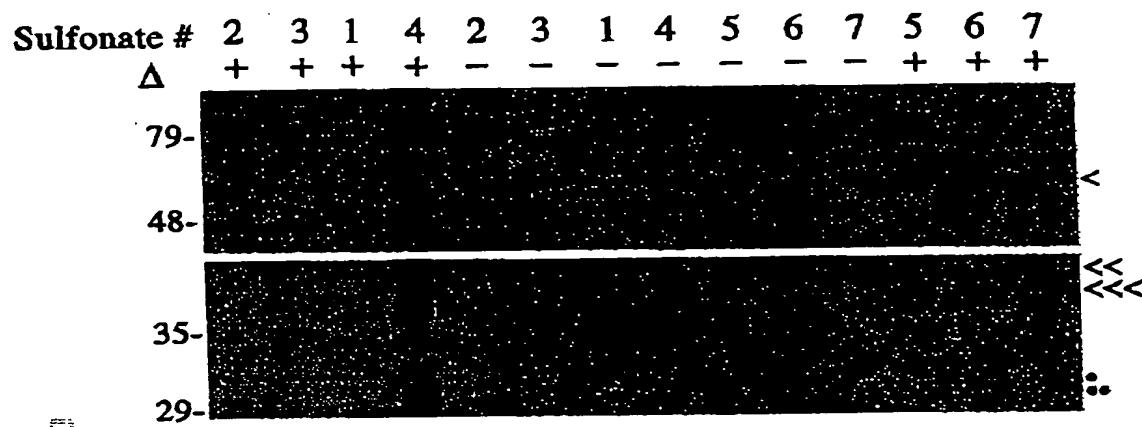


FIGURE 11

A



B

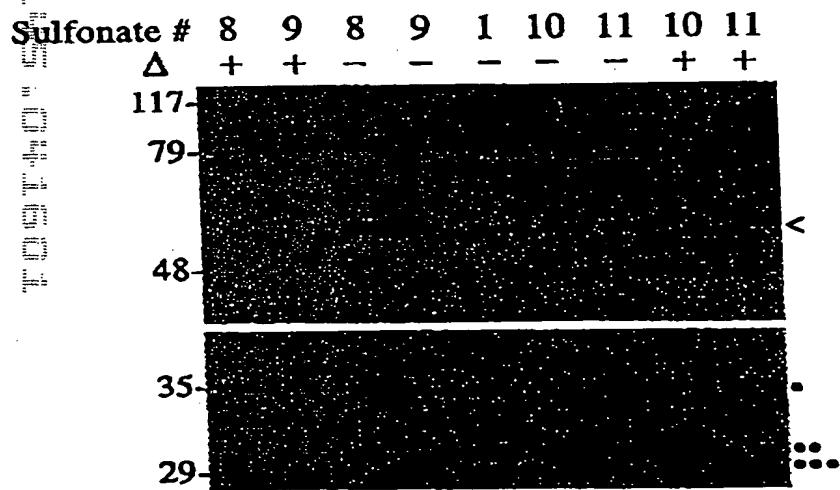
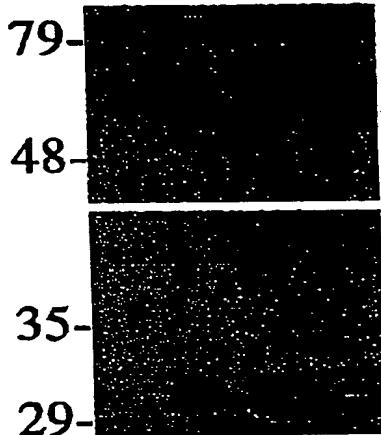


FIGURE 12

A

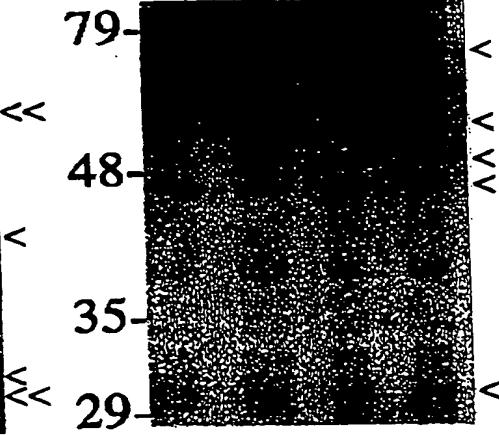
Sulfonate # 1 1 5 5

Δ + - - +



1 1 5 5

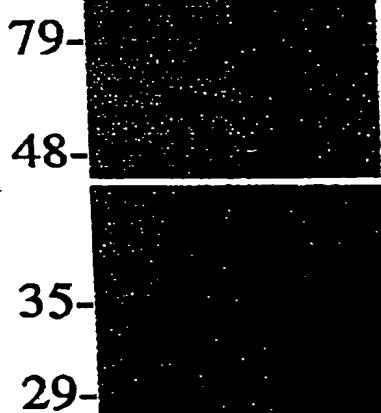
+ - - +



B

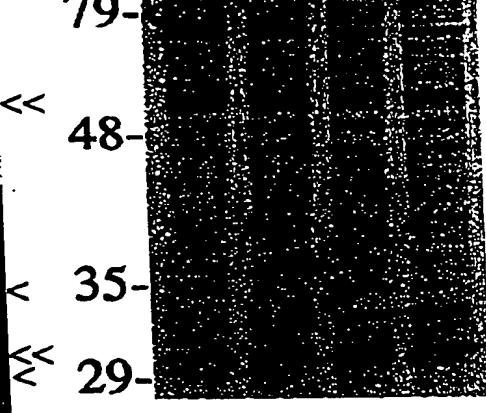
Sulfonate # 1 1 9 9

Δ + - - +



1 1 9 9

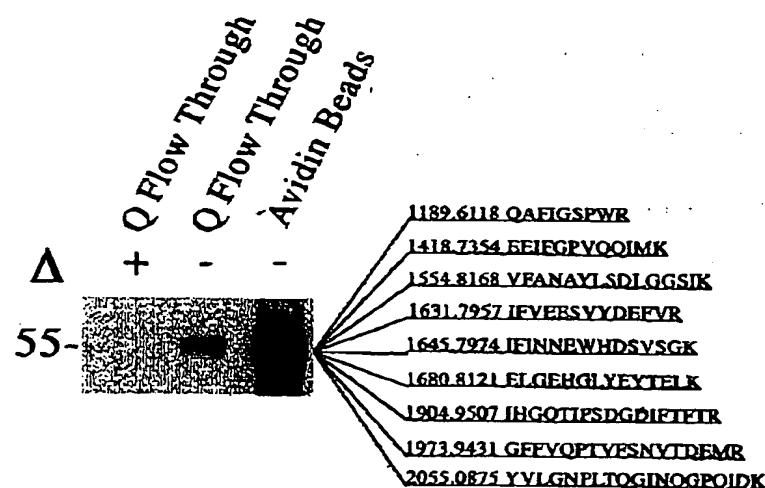
+ - - +



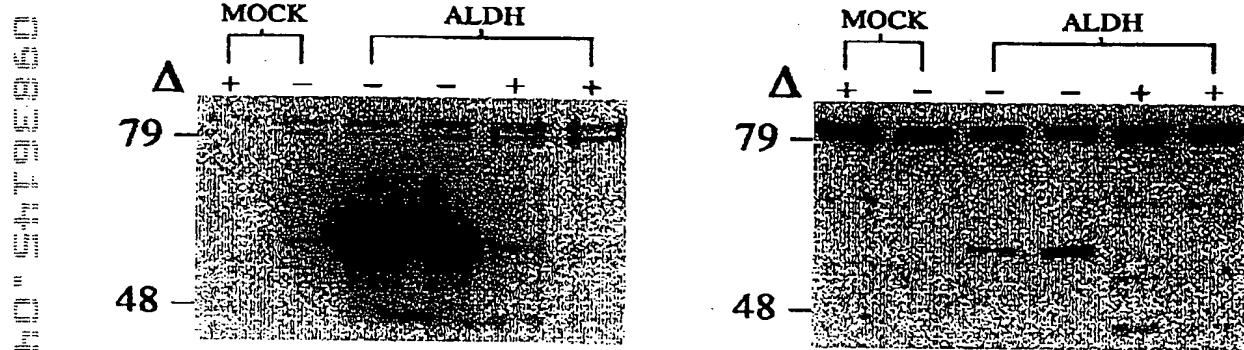
0 9 8 3 6 1 4 5 0 1 0 1

FIGURE 13

A



B



C

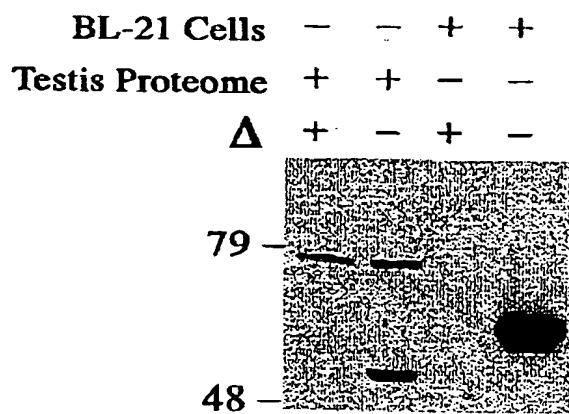
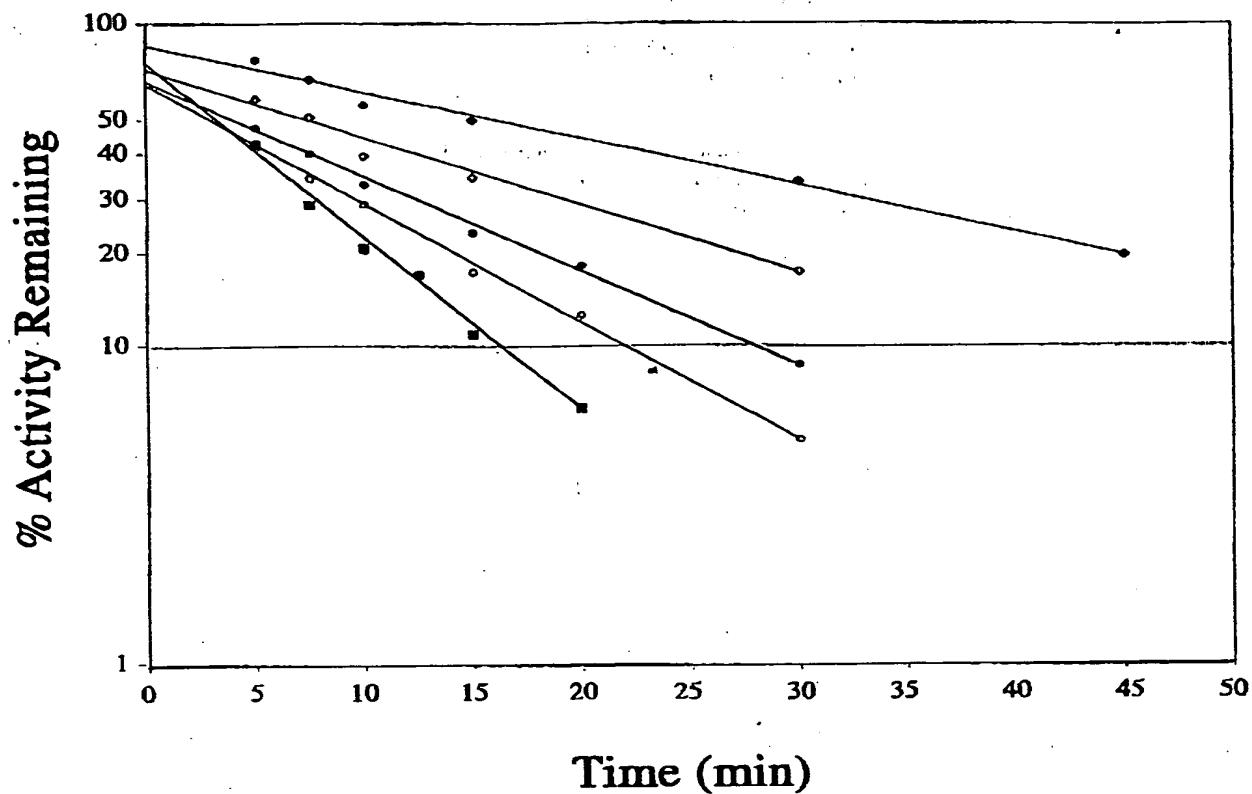


FIGURE 14

A



B

Competitor #	-	-	15	17	16	15	17	16
[Competitor (μ M)]	0	0	5	5	5	50	50	50
Δ	+	-	-	-	-	-	-	-

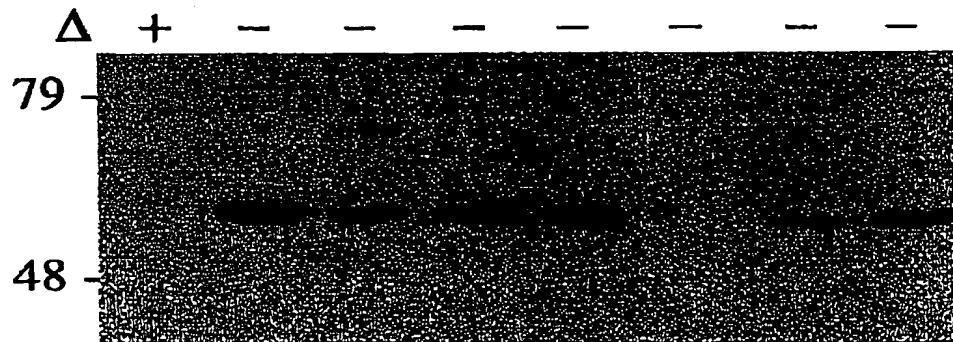


FIGURE 15

096362465 - 0943604

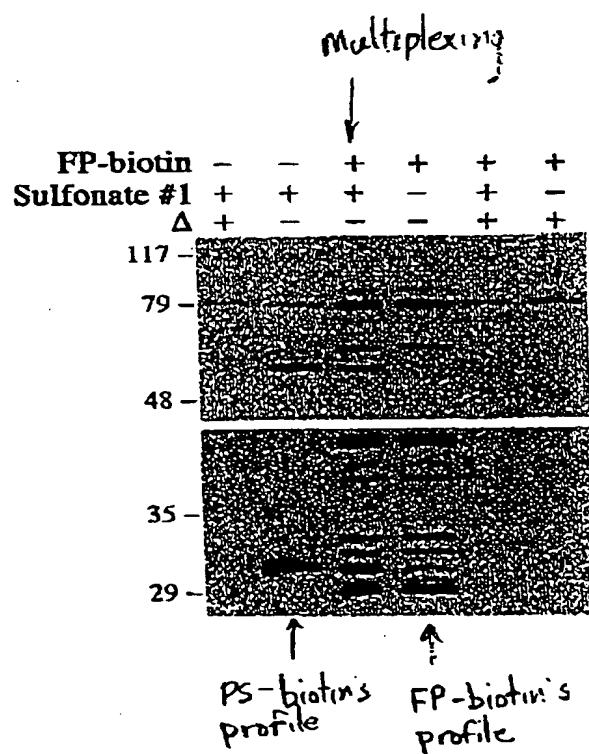


FIGURE 16

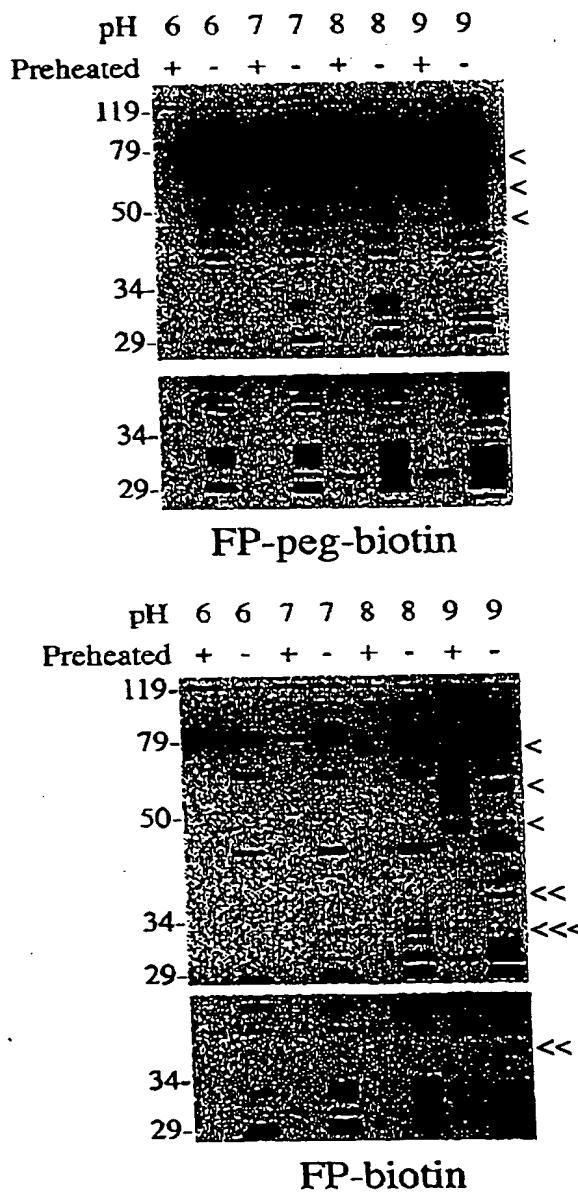


FIGURE 17

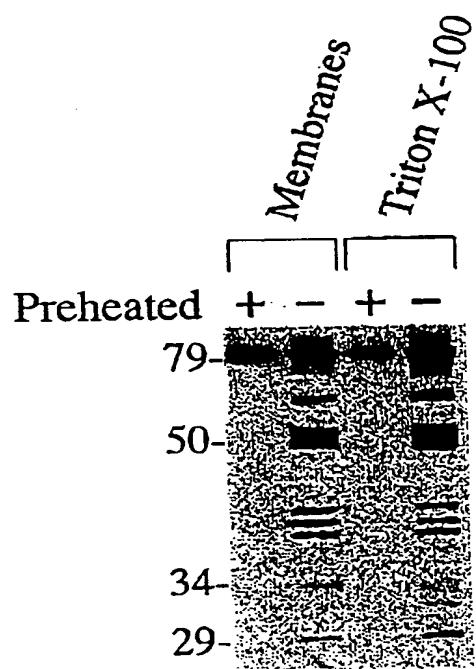


FIGURE 18

09036445 041604

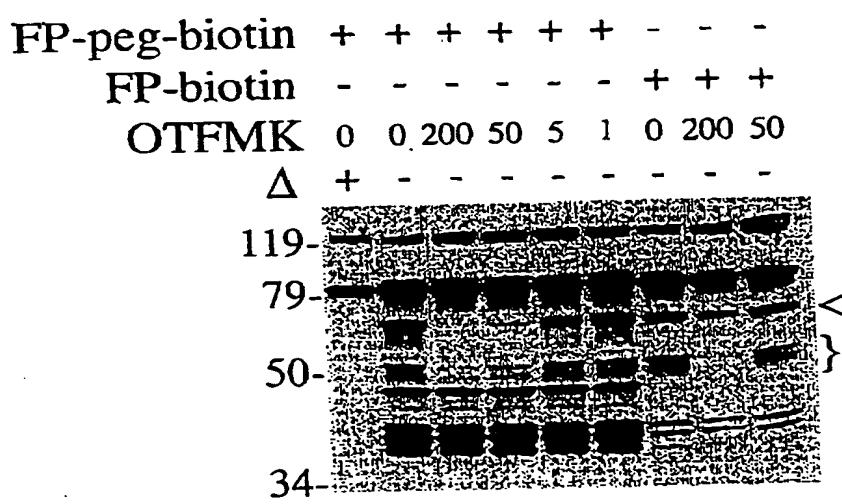


FIGURE 19

DESERTEC COLLEGE

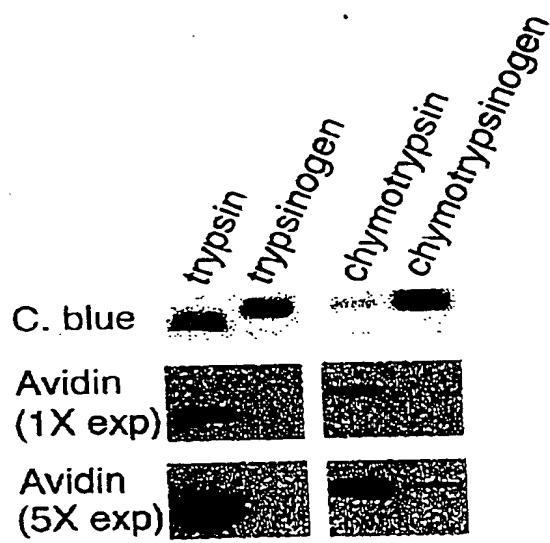
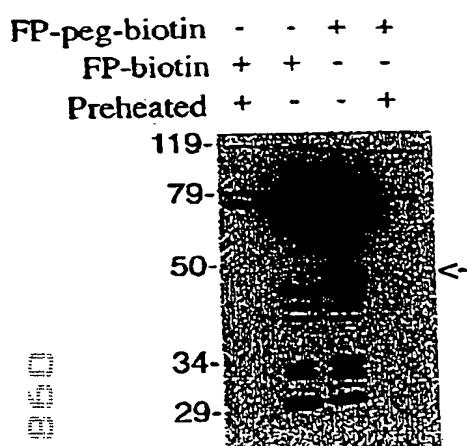
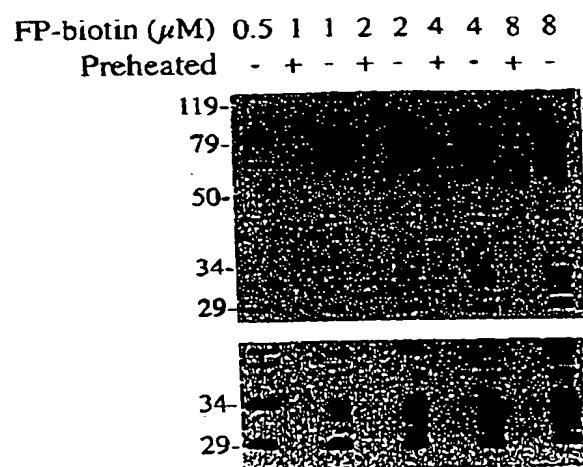


FIGURE 20

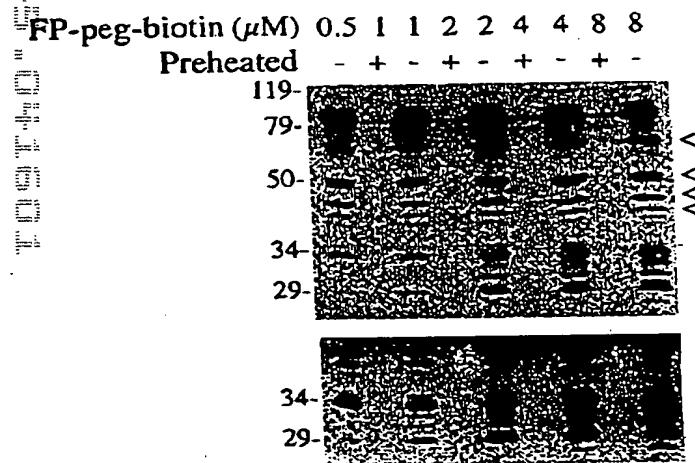
A



B



C



D

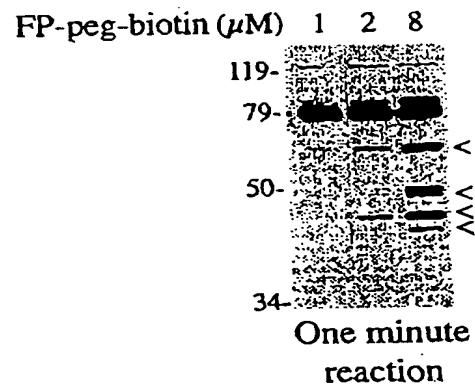


FIGURE 21

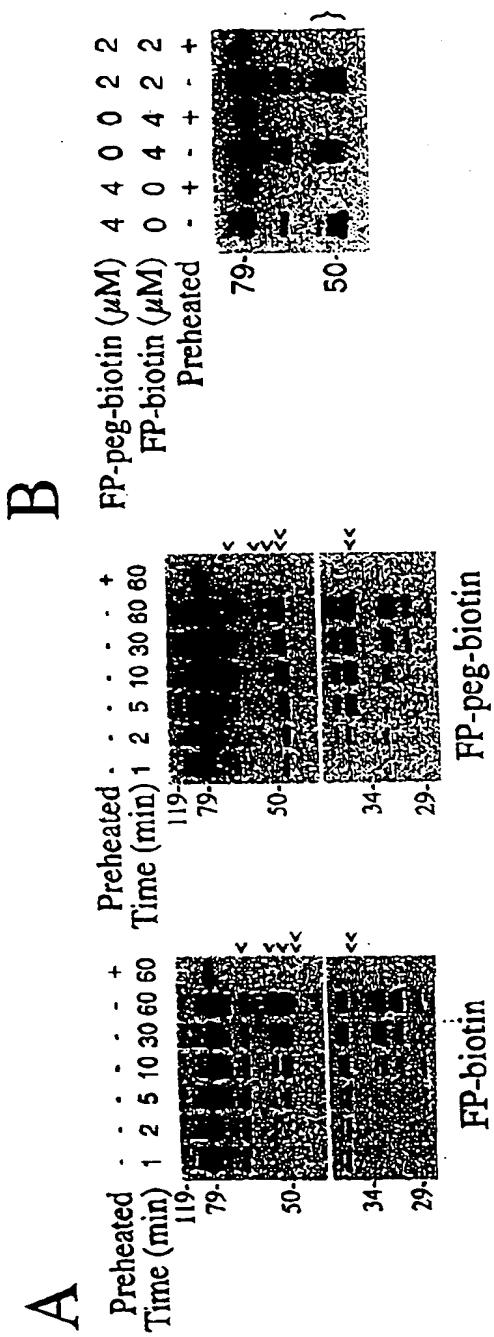


FIGURE 22

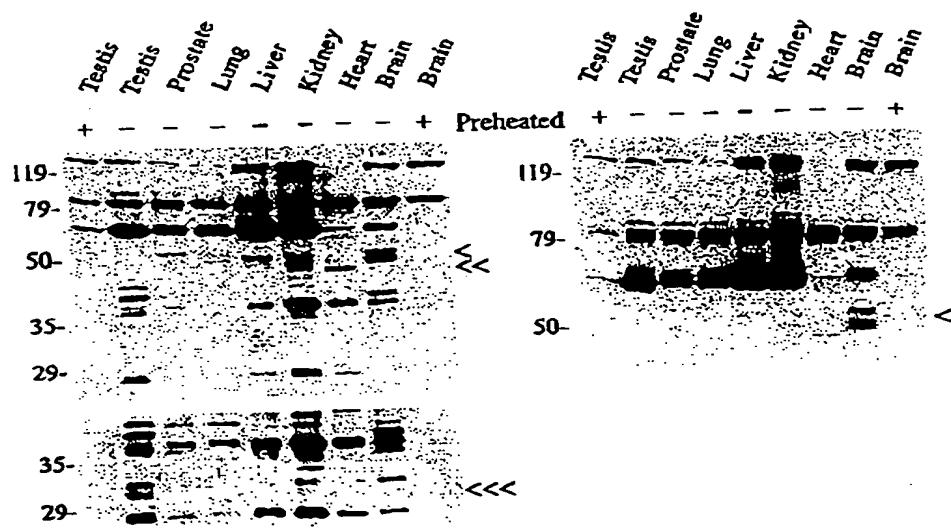


FIGURE 23

